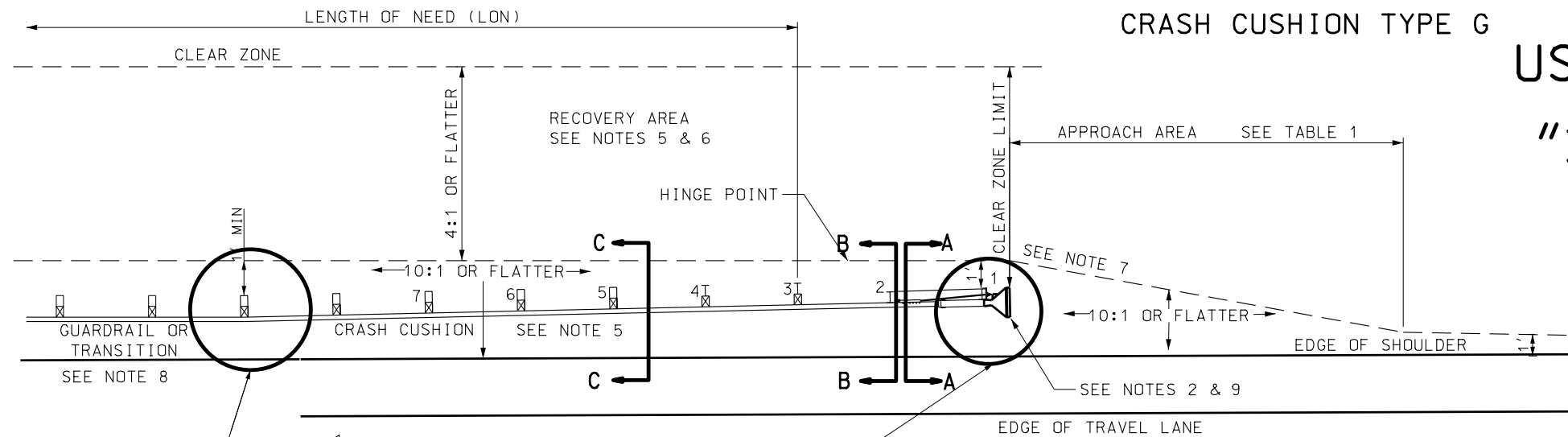
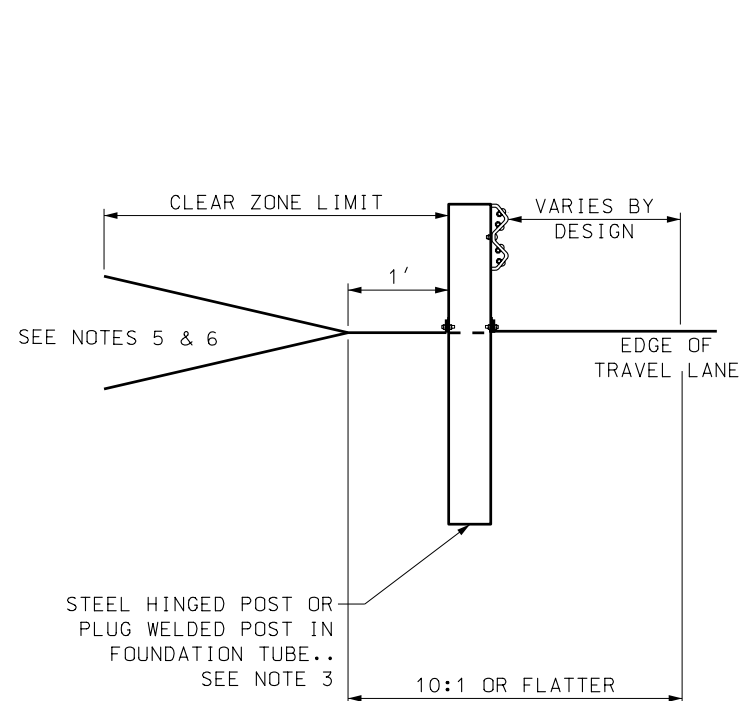
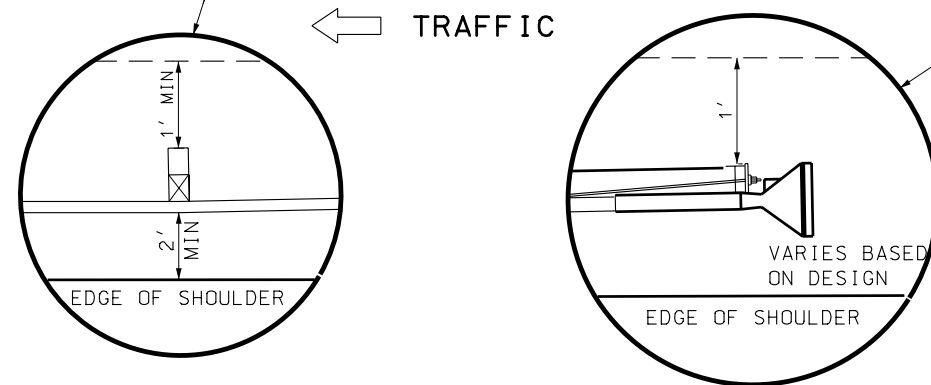


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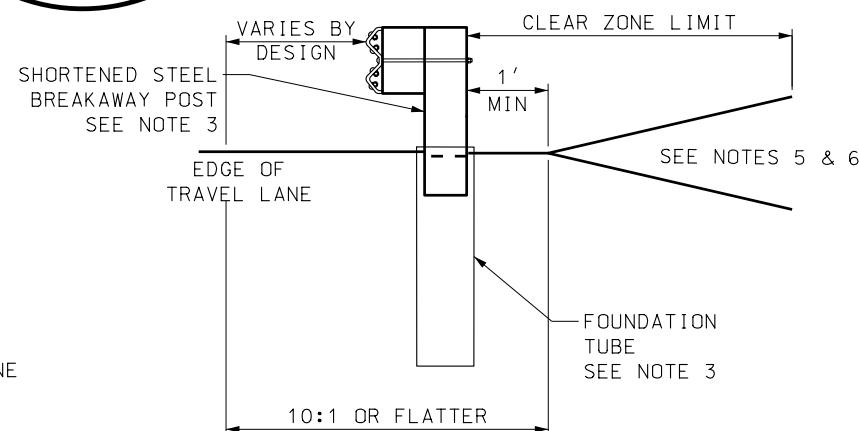


CRASH CUSHION TYPE G  
USE THIS DETAIL FOR  
"3R" PROJECTS ONLY

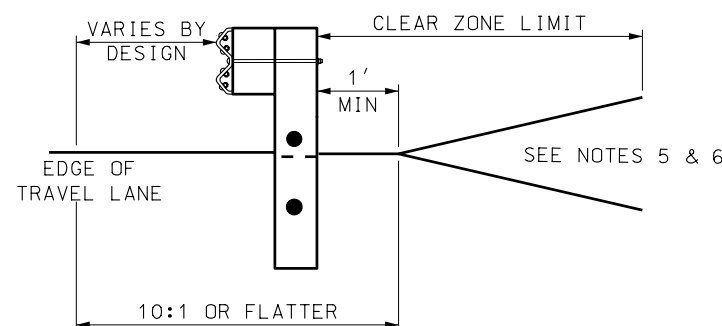
TABLE 1	
SPEED MPH	TAPER
LESS THAN 40	7:1
40 TO 55	10:1
60 TO 75	15:1



TYPICAL SECTION A-A  
POST 1  
SEE NOTE 3



TYPICAL SECTION B-B  
POSTS 2-4



TYPICAL SECTION C-C  
POSTS 5-8  
SEE NOTE 3

#### NOTES:

- APPROVED SYSTEMS: ET-2000 AND ET-PLUS MANUFACTURED BY TRINITY INDUSTRIES AND THE SKT-350, MANUFACTURED BY ROAD SYSTEMS INC. REFER TO UDOT'S GUIDELINES FOR CRASH CUSHIONS AND END TREATMENTS FOR SPECIFIC SYSTEM DETAILS.
- SYSTEM OFFSET:
  - INSTALL SYSTEM WITH 2 FOOT OFFSET (25:1 FLARE RATE) WHEN USED WITH A TANGENT BARRIER SYSTEM.
  - INSTALL SYSTEM AT THE SAME FLARE RATE AS THE BARRIER INSTALLATION SYSTEM IS BEING ATTACHED TO.
- POST OPTIONS: REFER TO UDOT'S GUIDELINES FOR CRASH CUSHION FOR APPROVED POST OPTIONS.
  - POST 1
    - ET SERIES-HINGE BREAKAWAY POST (HBA)
    - SKT-350 PLUG WELDED POST INSIDE FOUNDATION TUBE.
- RAIL ELEMENTS
  - USE 12<sup>1</sup>/<sub>2</sub> FOOT RAIL ELEMENTS AS SPECIFIED BY THE SYSTEM MANUFACTURER.
  - DO NOT BOLT RAIL ELEMENT TO POST 1.
  - REFER TO MANUFACTURE SPECIFICATIONS FOR OTHER RAIL TO POST BOLT REQUIREMENTS.
- COMPLETE SLOPE PREPARATIONS PRIOR TO INSTALLING SYSTEM.
  - USE 10:1 OR FLATTER SLOPES IN APPROACH AREAS.
  - CONSTRUCT RECOVER AREA SLOPE AS PER CC 8A WHEN CONDITIONS PERMIT. CONSULT ENGINEER FOR ALLOWABLE SLOPES WHEN SLOPE REQUIREMENTS OF CC 8A CANNOT BE MET.
- CLEAR RECOVERY AND APPROACH AREAS OF ANY FIXED OBJECTS.
  - DO NOT PLACE SIGNS OR POLES IN APPROACH AREA.
  - USE BREAKAWAY SIGNS OR POLES WHEN PLACED IN RECOVERY AREA, AND MAINTAIN A MINIMUM 10 FOOT CLEARANCE TO THE SIDES AND REAR OF THE SYSTEM.
- CONSTRUCT PLATFORM AS REQUIRED EVEN IF THE PLATFORM EXTENDS BEYOND THE CLEAR ZONE REQUIREMENT.
- USE GUARDRAIL TRANSITION, STD DWG BA 4 SERIES, WHEN ATTACHING SYSTEM TO CONCRETE BARRIER OR BRIDGE PARAPET.
- INSTALL REQUIRED MARKINGS AS PER STD DWG CC 1.
- USE THE CURRENT EDITION, ROADSIDE DESIGN GUIDE TO ESTABLISH CLEAR ZONE REQUIREMENT AND LENGTH OF NEED (LON) REQUIREMENTS.

UTAH DEPARTMENT OF TRANSPORTATION  
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

GRADING AND  
INSTALLATION DETAILS  
FOR "3R" PROJECTS  
CRASH CUSHION TYPE G

STD DWG  
CC 8B

REVISIONS  
1 02/24/05 GS NEW DRAWING.

2 04/28/05 GS REISSUED TO CORRECT OVERSIGHT.

3 11/30/06 GS REVISED TO REFLECT STEEL POST REQUIREMENTS.  
NOTE 2 OFFSET REQUIREMENT.

RECOMMENDED FOR APPROVAL  
CHAIRMAN STANDARDS COMMITTEE  
APPROVED  
NOV. 30, 2006  
DATE

DEPUTY DIRECTOR  
NOV. 30, 2006  
DATE

STANDARD DRAWING TITLE

REMARKS